

December 31, 1959

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Subject: Task 17 - Project 179  
Status Report

Dear 

We enclose the December 31 Status Report relative to the subject project, which is indicative of the work performed since the visit of your representative on November 12, 1959.

The present financial status of this project consists of a balance of \$2838.93. This relates to the \$5331.68 provided as additional funds in Supplement No. 1, subject contract, dated October 6, 1959.

Further work on this project will be pursued in accordance with the recommendations and instructions of your representative.

Thank you.

Very truly yours,

EHG:ea  
 Encl.

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CONTROL NO. 235979  
 DATE PREPARED 2010  
 EXTENDED BY Saml  
 REAM 3d(3)

STATUS REPORT  
TASK 17 - PROJECT 179  
DECEMBER 31, 1959

On November 12, 1959 your representative visited our laboratories for the purpose of reviewing preceding developments and discussing further work. The decisions reached consisted of further development on the impact wrench, which was returned at this time, in an effort to reduce the noise level. Additionally, a new wrench was proposed predicated on the basis of a clock-type energy mechanism which would eliminate striking parts. The absence of direct impact in a device of this nature should result in far more quiet operation.

The above noted spring-wound prototype impact tool was developed and found to be quite effective. However, the initial device was relatively noisy and therefore insulation was interposed in the form of felt washers, which provided a remarkably quiet operation and in no way impaired the operation of the device. With this prototype to indicate that the premise was sound, a formal model was produced.

During the course of producing previously noted formal prototype, a modified development was made in the form of a spring-operated device wound with a spur and pinion gear and released by folding the winding crank into the case and pressing in the manner in which a camera shutter is operated. This unit operated satisfactorily. However, it was apparent that the gears would not withstand the high tooth loading imposed by

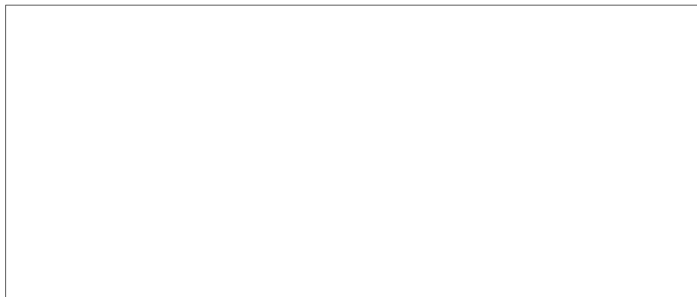
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virtue of the design parameter, and as such their life could be rather limited. Therefore, it was decided that the original conception of the spring operated tool would offer the best solution because of its simplicity, providing a satisfactory method of winding and releasing the spring could be devised. In the original device the winding was accomplished by a separate tool which requires removal prior to operation.

Predicated on the developed knowledge, a final spring actuated tool provided with external winding means has been completed and satisfactorily tested.

Conjunctive with the above efforts all materials have been assembled and a kit is being provided to include the ingredients necessary for satisfactorily artificially aging brass surfaces.

Further work will be dependent upon the recommendations and instructions of your representative and will be held in abeyance pending advice from him.



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